OIPE IAP17 APR 17 2006 PATENT & TRADEMARK OFFICE

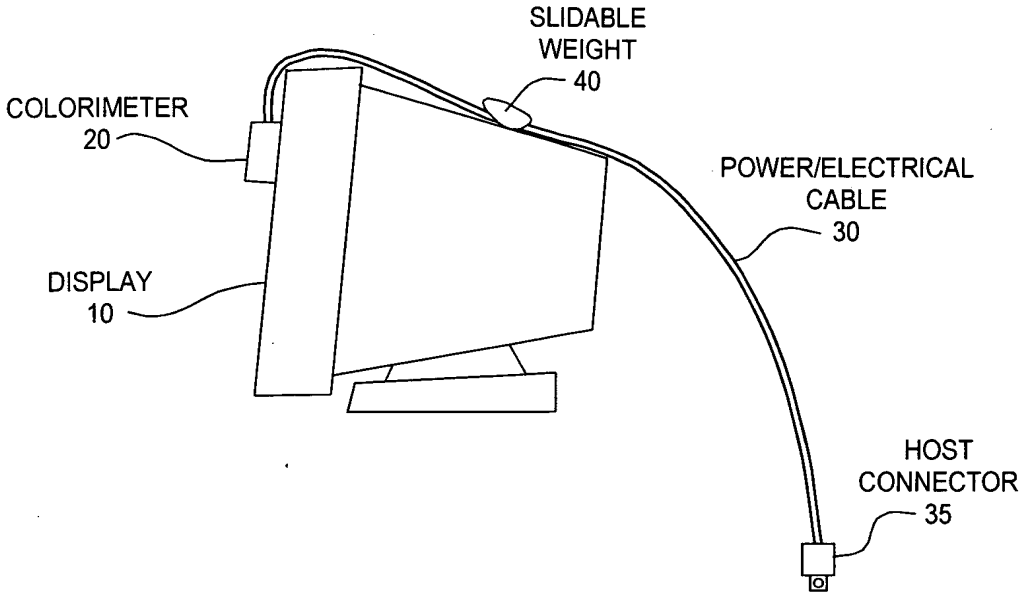

FIG. 1

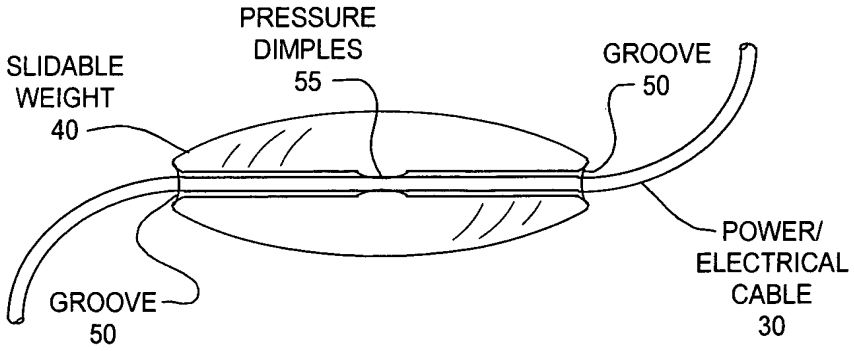

FIG. 2

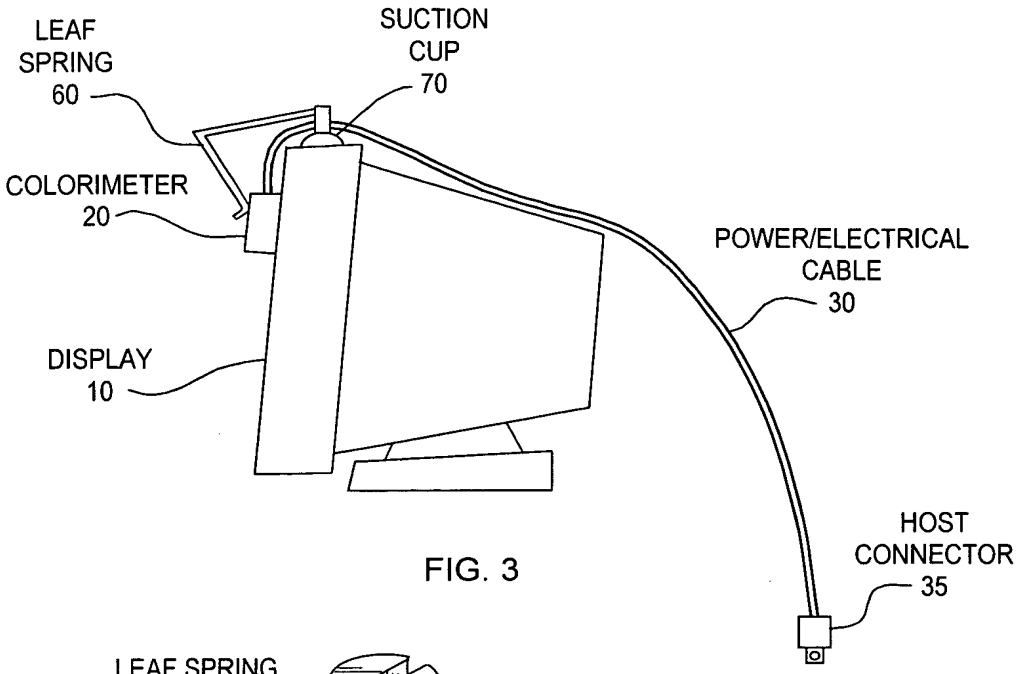

FIG. 3

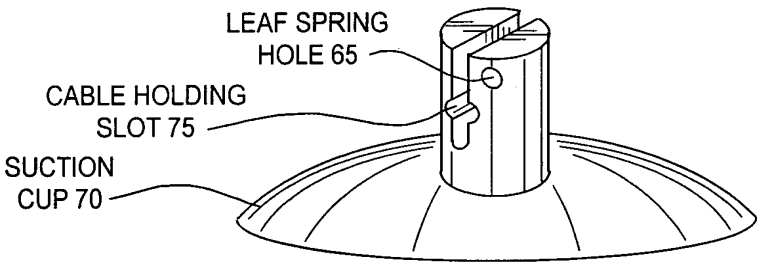

FIG. 4A

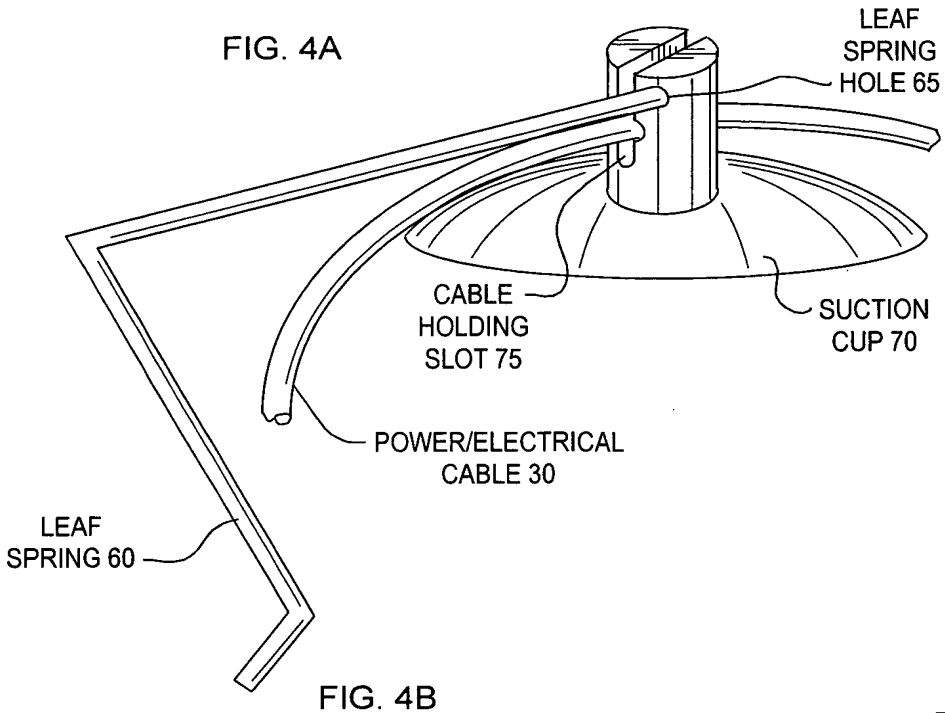

FIG. 4B

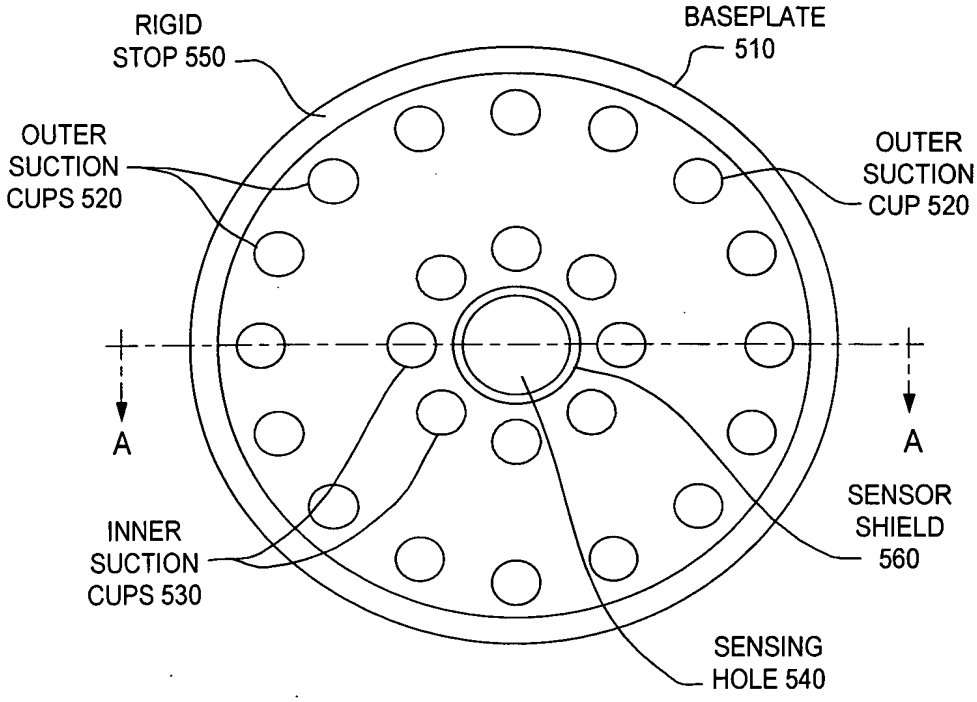
RIGID STOP 550
BASEPLATE 510
OUTER SUCTION CUPS 520
OUTER SUCTION CUP 520
A
A
SENSOR SHIELD 560
INNER SUCTION CUPS 530
SENSING HOLE 540

FIG. 5A

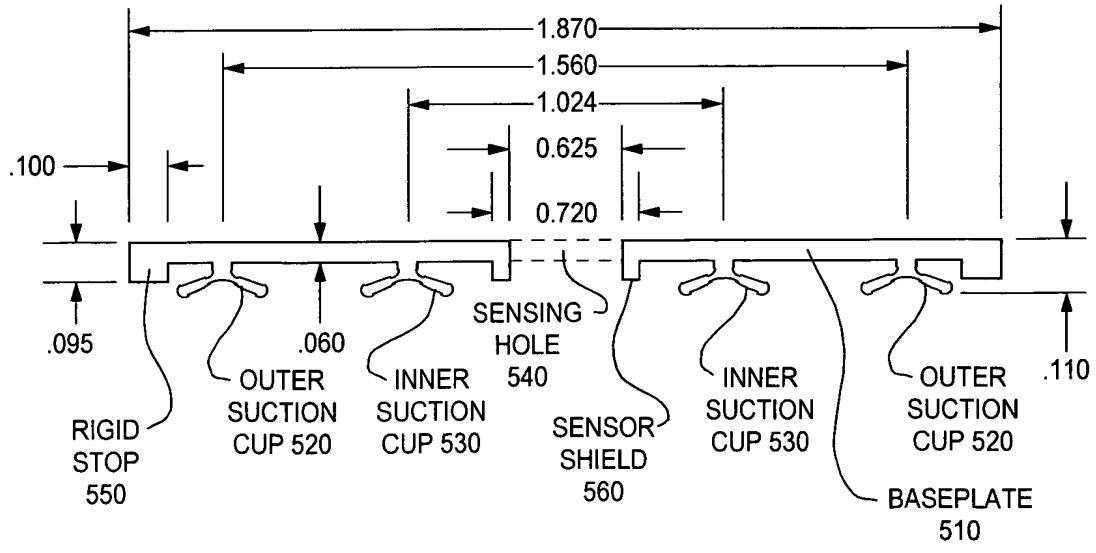
1.870
1.560
1.024
0.625
0.720
.100
.095
.060
.110
RIGID STOP 550
OUTER SUCTION CUP 520
INNER SUCTION CUP 530
SENSING HOLE 540
SENSOR SHIELD 560
INNER SUCTION CUP 530
OUTER SUCTION CUP 520
BASEPLATE 510

FIG. 5B

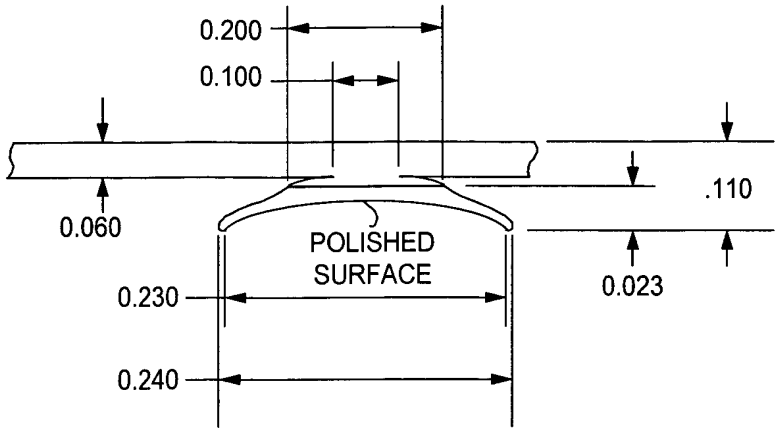
0.200
0.100
.110
0.060
POLISHED
SURFACE
0.023
0.230
0.240

FIG. 6A

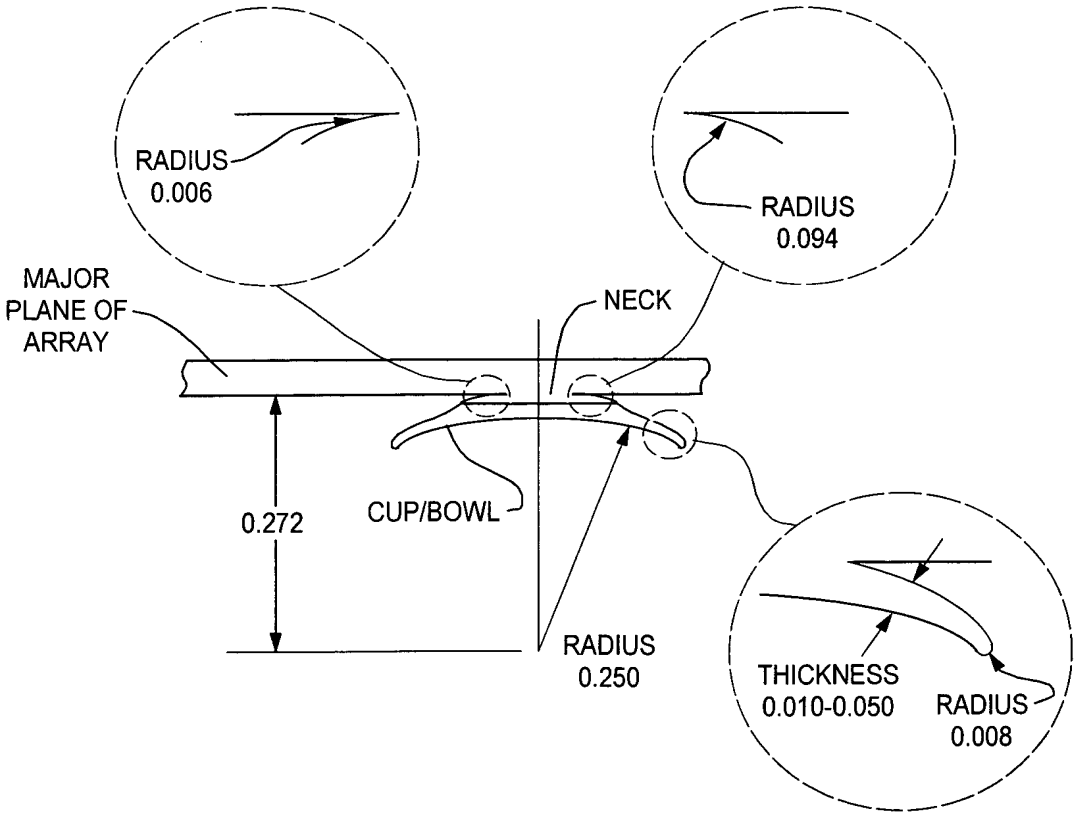
RADIUS
0.006
RADIUS
0.094
MAJOR
PLANE OF
ARRAY
NECK
0.272
CUP/BOWL
RADIUS
0.250
THICKNESS
0.010-0.050
RADIUS
0.008

FIG. 6B

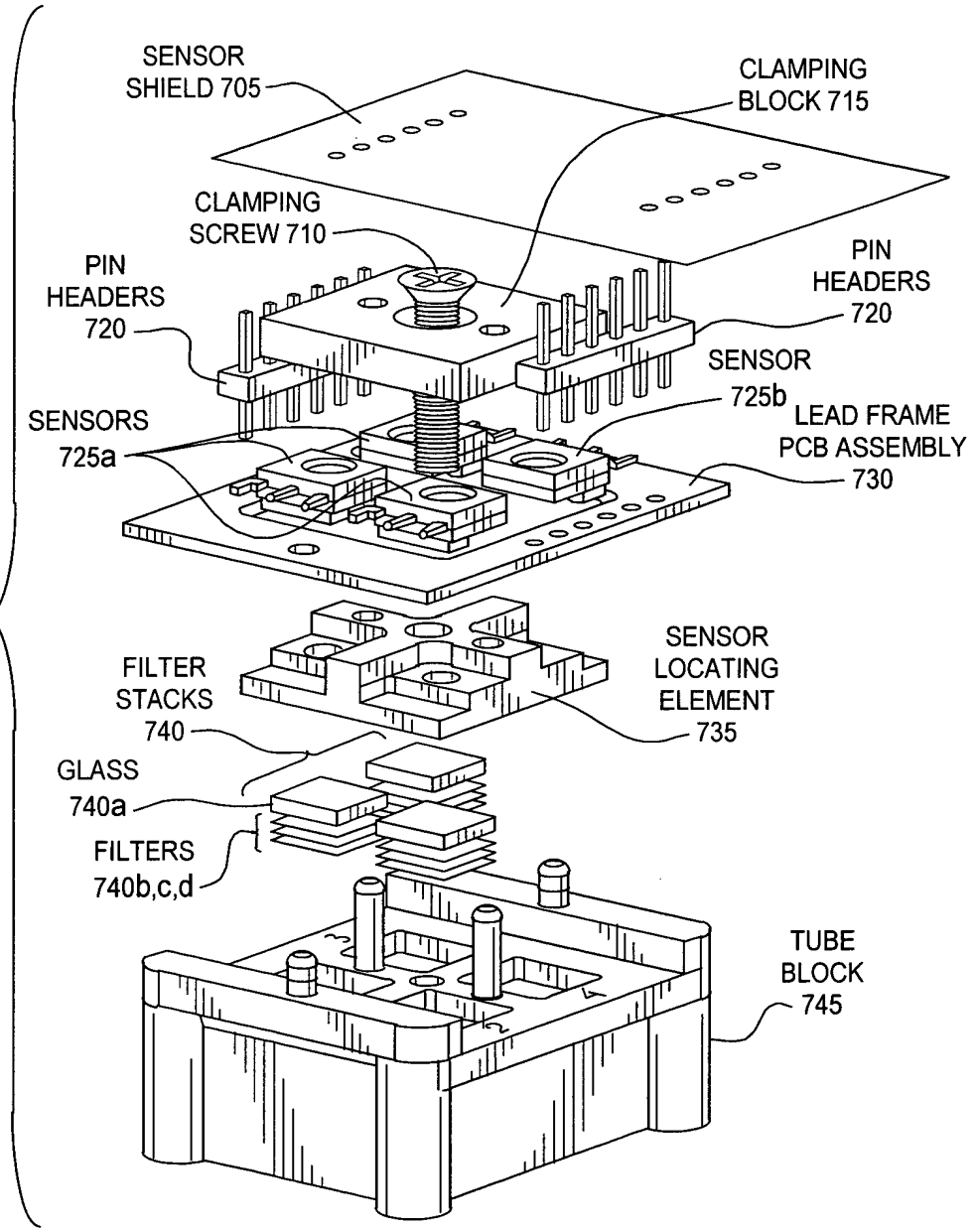
SENSOR SHIELD 705
CLAMPING BLOCK 715
CLAMPING SCREW 710
PIN HEADERS 720
PIN HEADERS 720
SENSOR 725b
SENSORS 725a
LEAD FRAME PCB ASSEMBLY 730
FILTER STACKS 740
SENSOR LOCATING ELEMENT 735
GLASS 740a
FILTERS 740b,c,d
TUBE BLOCK 745

FIG. 7